PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicable or examination reference							
Applicant's or agent's file refe 2258/PCT	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No. PCT/GB2005/000966	International filing date 11.03.2005	(day/month/year)	Priority date (day/month/year) 13.03.2004				
International Patent Classifica B60N2/48	ation (IPC) or national classification and	PC	1				
Applicant BRITAX EXCELSIOR L	IMITED et al.	-					
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2. This REPORT consi	ists of a total of 7 sheets, including t	his cover sheet.					
3. This report is also a	ccompanied by ANNEXES, comprisi	ng:					
a. 🗆 sent to the ap	oplicant and to the International Bure	eau) a total of sheets, a	s follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
beyond t	Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
sequence list	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains	indications relating to the following i	tems:					
☐ Box No. I Ba	asis of the opinion						
☐ Box No. II Pr	iority						
⊠ Box No. III No	on-establishment of opinion with rega	ard to novelty, inventive step and industrial applicability					
🛛 Box No. IV La	ck of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	ertain documents cited						
	ertain defects in the international app						
☐ Box No. VIII Certain observations on the international application							
Date of submission of the der	nand	Date of completion of this	s report				
		·					
08.08.2005		31.01.2006					
Name and mailing address of		Authorized Officer					
preliminary examining authority: ———— European Patent Office D-80298 Munich		Pétiaud, A	Sport				
Tel. +49 89 23 Fax: +49 89 23	99 - 0 Tx: 523656 epmu d 899 - 4465	Telephone No. +49 89 23	399-				
		. 5.5p.16115 140. ++0 09 21	* Office outon				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2005/000966

	Box No. I	Basis of the report
1.	With regard	I to the language , this report is based on the international application in the language in which it was s otherwise indicated under this item.
		port is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of:
	□ pub	rnational search (under Rules 12.3 and 23.1(b)) lication of the international application (under Rule 12.4) rnational preliminary examination (under Rules 55.2 and/or 55.3)
2.	have been	It to the elements * of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>
		e e e e e e e e e e e e e e e e e e e
	Description	, Pages
	1-6	as originally filed
	Claims, Nur	nbers
	1-17	as originally filed
	Drawings, S	sheets
	1/3-3/3	as originally filed
	□ a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ The an	nendments have resulted in the cancellation of:
		description, pages claims, Nos.
	☐ the	drawings, sheets/figs
		sequence listing <i>(specify)</i> : table(s) related to sequence listing <i>(specify)</i> :
1.	had not bee	port has been established as if (some of) the amendments annexed to this report and listed below en made, since they have been considered to go beyond the disclosure as filed, as indicated in the tal Box (Rule 70.2(c)).
		description, pages claims, Nos.
	☐ the	drawings, sheets/figs
		sequence listing <i>(specify)</i> : table(s) related to sequence listing <i>(specify)</i> :
	* If ite	em 4 applies, some or all of these sheets may be marked "superseded."

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		k No. III – Non-establishment o dicability	of opi	inion with regard to novelty, inventive step and industrial	
1.		The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:			
		☐ the entire international application,			
	\boxtimes	claims Nos. 11-17			
		because:			
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):			
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.			
	\boxtimes	no international search report has been established for the said claims Nos. 11-17			
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Ann C of the Administrative Instructions in that:			
		the written form		has not been furnished	
				does not comply with the standard	
		the computer readable form		has not been furnished	
				does not comply with the standard	
		the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.			
	П	See senarate sheet for further	detai	is	

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	Во	x No. IV Lack of unity of in	ventior	1				
1.		In response to the invitation to restricted the claims. ☐ paid additional fees. ☐ paid additional fees under ☐ neither restricted nor paid	protes	t.	dditional fees	s, the applicant has:		
2.		This Authority found that the Rule 68.1, not to invite the ap	require plicant	ment of unito restrict of	ity of invention or pay additi	on is not complied with onal fees.	າ and chose, acco	ording to
3.	This	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 s						
		complied with.		4 *****	•			
	\boxtimes	not complied with for the following reasons:						
		see separate sheet						
4.	Cor	Consequently, this report has been established in respect of the following parts of the international application:						
		all parts.						
☑ the parts relating to claims Nos. 1-12 .								
	Bo:	x No. V Reasoned stateme olicability; citations and exp	ent und lanatio	ler Article ns suppor	35(2) with reting such s	egard to novelty, inv tatement	entive step or in	dustrial
1.	Sta	tement						
	Nov	velty (N)	Yes: No:	Claims Claims	1-10			
	Inv	rentive step (IS)		Claims Claims	1-10			
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-10			
2.	Cita	ations and explanations (Rule	70.7):					

see separate sheet

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Re Item IV.

1. Non unity

The separate groups of inventions are:

claims 1-12

Safety seat having a headrest with movable wings

claims 11-17

Safety seat having a headrest with energy absorption means

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons.

1.1 Differences over the prior art

The prior art has been identified as document DE9405366U (D1) and discloses:

A safety seat comprising a winged headrest, the head rest having a rear head support (3), support wings (30) fixed to the rear head support at respective opposite sides thereof and deformable extensions (5) of the support wings, each extension being hingedly connected to its support wing remote from the rear head support and normally extending forwards of its support wing.

It follows that the following technical features of claims 1 and 11 make a contribution over the prior art and can be considered as special technical features within the meaning of Rule 13.2 PCT:

claim 1:

the extensions extend obliquely forwards and laterally outwards of their support wing; on lateral impact including impact of the winged headrest with a side part of a vehicle with the extension on the impacted side striking the side part first, the extensions hinge inwards;

claim 11:

the headrest includes deformable lining wings for the support wings, each lining wing

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being secured to the headrest at a root between the rear head support and its support wing and abutting the distal end of its support wing and defining a void between itself and its support wing, whereby on lateral impact including impact of the head of an occupant of the safety seat with one of the lining wings, head acceleration energy is absorbed in deformation of the lining wing towards its support wing.

1.2 Problems solved by the special technical features

The problem solved by these special technical features can therefore be construed as:

claim 1:

providing an enhanced area of protection of the head of an occupant (see page 2, lines 11 and 12);

claim 11:

providing a better energy absorption in case of accident.

Also, examining the possible correspondence by technical effect, one finds that the technical effect of the first invention is a greater area of protection, and that the technical effect of the second invention is a better energy absorption.

This appears to show lack of corresponding technical effect as well. Consequently, neither the objective problem underlying the subjects of the claimed inventions, nor their solutions defined by the special technical features allow for a relationship to be established between the said inventions, which involves a single general inventive concept.

1.3 Conclusion

In conclusion, the groups of claims are not linked by common or corresponding special technical features and define 2 different inventions not linked by a single general inventive concept.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

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Re Item V.

2. Claim 1

Document D1, which is considered to represent the most relevant state of the art, discloses a safety seat which differs from the being the object of claim 1 (see point 1.1)

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)

The problem to be solved by the present invention may be regarded as providing an enhanced area of protection of the head of the occupant of the seat.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) since the additional features of claim 1 are neither known, neither rendered obvious by the available prior art.

3. Claims 2-10

Claims 2-10 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.